Amendments to the Claims

Please cancel Claims 5-7, 13, 19-49. Please amend Claims 1, 8 and 14. The Claim Listing below will replace all prior versions of the claims in the application:

Claim Listing

1. (Currently amended) A method for identifying an FGF receptor ligand comprising:
   a) providing a cDNA expression library from an organism of interest;
   b) providing a population of cells that express a DNA sequence encoding a heterologous FGF receptor that comprises an extracellular domain, a transmembrane domain, and an intracellular domain that is characterized by protein tyrosine kinase activity;
   c) transforming the population of cells with the cDNA expression library; and
   d) detecting protein kinase activity in clonally-derived cells, wherein elevated FGF receptor tyrosine kinase activity indicates the presence of an FGF receptor ligand.

2. (Original) The method according to Claim 1, wherein the cell is a yeast cell.

3. (Original) The method according to Claim 1, wherein the DNA sequence encoding a heterologous FGF receptor is carried on a CEN-based plasmid.

4. (Original) The method according to Claim 1, wherein the DNA sequence encoding a heterologous FGF receptor is inserted into a chromosome.

5-7. (Cancel)

8. (Currently amended) A method for identifying an FGF receptor ligand comprising:
   a) providing a cDNA expression library from an organism of interest under the control of an inducible promoter;

b) providing a population of cells that express a DNA sequence encoding a heterologous FGF receptor that comprises an extracellular domain, a transmembrane domain, and an intracellular domain that is characterized by protein tyrosine kinase activity;

c) transforming the population of cells with the cDNA expression library; and

d) detecting protein kinase activity in clonally-derived cells, wherein elevated FGF receptor tyrosine kinase activity indicates the presence of an FGF receptor ligand.

9. (Original) The method according to Claim 8, wherein the cell is a yeast cell.

10. (Original) The method according to Claim 8, wherein the DNA sequence encoding a heterologous FGF receptor is carried on a CEN-based plasmid.

11. (Original) The method according to Claim 8, wherein the DNA sequence encoding a heterologous FGF receptor is inserted into a chromosome.

12. (Original) The method according to Claim 8, wherein the DNA sequence encoding a heterologous FGF receptor is constitutively expressed.

13. (Cancel)

14. (Currently amended) A method for identifying an FGF receptor ligand comprising:

a) providing a cDNA expression library from an organism of interest;

b) providing a population of cells that constitutively express a DNA sequence encoding a heterologous FGF receptor that comprises an extracellular domain, a transmembrane domain, and an intracellular domain that is characterized by protein tyrosine kinase activity;

c) transforming the population of cells with the cDNA expression library; and

d) detecting protein kinase activity in clonally-derived cells, wherein elevated FGF receptor tyrosine kinase activity indicates the presence of an FGF receptor ligand.

15. (Original) The method according to Claim 14, wherein the cell is a yeast cell.

16. (Original) The method according to Claim 14, wherein the DNA sequence encoding a heterologous FGF receptor is carried on a CEN-based plasmid.

17. (Original) The method according to Claim 14, wherein the DNA sequence encoding a heterologous FGF receptor is inserted into a chromosome.

18. (Original) The method according to Claim 14, wherein the cDNA expression library having polynucleotide inserts under the control of an inducible promoter.

19-49. (Cancel)